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SETO HIROSHI**(54) FLAT SOLID ELECTROLYTE FUEL CELL****(57) Abstract:**

PURPOSE: To ensure the high capability of gas sealing and the high maintainability of a seal material by providing a cell via the use or the like of a manifold having a machined groove for coupling the four corners of the cell to a cylindrical section.

CONSTITUTION: An example is shown for providing a cell 31, using a manifold where a groove is machined for coupling the four corners, of the cell 31 to a cylindrical section 33. The stack type cell 31 is installed at the center of a bottom 32 and the four corners of the cell 31 are coupled to the machined section 34 of the cylindrical section 33. Also, a sunken cover 35 is placed on the cell 31. In this case, a projection 36 is machined and formed on the cover 35 for engagement in such a way as corresponding to the machined section 34 of the cylindrical section 33. According to this construction, gas can be sealed and a measure can be taken against a change in the stack number of cells by using the cover 35, even if the height of the cell 31 is not always identical to the height of the section 33. Also, all the contact areas of the manifold and the cell 31 are sealed with glass, and

this glass softens at a cell operating temperature, for example, near 1000°C for preventing gas leakage.

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